

Abstract of the Disclosure

Provided is a digital audio amplifier capable of increasing self-oscillation frequency by using a phase lead-lag compensator. The digital audio amplifier 5 includes the phase lead-lag compensator which increases the self-oscillation frequency by lead-lag-compensating for the phase of an output signal and making a feedback of the compensated output signal. In addition, the digital audio amplifier further includes a bandwidth control means which controls the bandwidth of an error amplifier. Accordingly, the digital audio amplifier can 10 adjust the self-oscillation frequency and reduce the extent to which the self-oscillation frequency varies in accordance with the variation of the output signal by using the bandwidth control means that inserts a pole into the error amplifier.